



SPYWOLF

Security Audit Report



Completed on
December 14, 2023

@SPYWOLFNETWORK



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OVERVIEW

This audit has been prepared for **Crypto Battle** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





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Crypto Battle



PROJECT DESCRIPTION

According to their whitepaper:

“Crypto Battle is an investment blockchain game where you have to build the defenses of your Kingdom and fight off hordes of enemies, taking their gold for yourself. You can save gold and then exchange it for CBT (Crypto Battle Token).”

Release Date: Presale starts in December, 2023

Category: Play to earn (P2E)



CONTRACT INFO

Token Name

Crypto Battle Token

Symbol

CBT

Contract Address

0xC348c541Abc673231f6A03C3f37Ad6fCA5D62b54

Network

Binance Smart Chain

Language

Solidity

Deployment Date

Dec 13, 2023

Contract Type

Reflections token

Total Supply

10,000,000

Status

Not launched

TAXES

Buy Tax

6%

Sell Tax

6%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	10,000,000 CBT
Median Transfer Amount	10,000,000 CBT
Average Transfer Amount	10,000,000 CBT
First transfer date	Dec-13-2023 08:54:25 PM +UTC
Last transfer date	Dec-13-2023 08:54:25 PM +UTC
Days token transferred	1

SMART CONTRACT STATS

Calls Count	3
External calls	3
Internal calls	0
Transactions count	3
Uniq Callers	1
Days contract called	1
Last transaction time	Dec-13-2023 09:29:07 PM +UTC
Created	Dec-13-2023 08:54:25 PM +UTC
Create TX	0x377bdd893ea4521f3bc210d053496239f16a1209b5fba47eb5333dfdd068d4a7
Creator	0xab90187dc2E749961Dc6A896bB2F67a399886a7F



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



Informational

Owner can change marketing/project/fund addresses.

```
function setprojectWalletAddress(address _addr) internal virtual {
    if (!_isExcludedFromFee[_addr]) {
        excludeFromFee(_addr);
    }
    _isdevWallet[_addr] = true;
    _projectWalletAddress = _addr;
}

function replaceprojectWalletAddress(
    address _addr,
    address _newAddr
) public onlyOwner {
    require(_isdevWallet[_addr], "Wallet address not set previously");
    require(!_isdevWallet[_newAddr], "Wallet address already set");
    if (!_isExcludedFromFee[_addr]) {
        includeInFee(_addr);
    }
    _isdevWallet[_addr] = false;
    setprojectWalletAddress(_newAddr);
}

function setmarketingWalletAddress(address _addr) public {
    require(_msgSender() == _marketingWalletAddress || _msgSender() == owner(),
        "Only marketing wallet can set this");
    require(_addr != address(0), "Zero address not allowed");
    if (!_isExcludedFromFee[_addr]) {
        excludeFromFee(_addr);
    }
    _marketingWalletAddress = _addr;
}

function setfundWalletAddress(address _addr) public {
    require(_msgSender() == _fundWalletAddress || _msgSender() == owner(),
        "Only fund wallet can set this");
    require(_addr != address(0), "Zero address not allowed");
    if (!_isExcludedFromFee[_addr]) {
        excludeFromFee(_addr);
    }
    _fundWalletAddress = _addr;
}
```



Informational

Owner can set buy/sell fees up to 5%.
Combined buy+sell = 10%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make. Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
uint256 public maxTaxFee = 5;
uint256 public maxDevFee = 5;
uint256 public maxSellTaxFee = 5;

function setTaxFeePercent(uint256 taxFee) external onlyOwner {
    require(taxFee >= 0 && taxFee <= maxTaxFee, "taxFee out of range");
    _taxFee = taxFee;
    _previousTaxFee = _taxFee;
}

function setDevFeePercent(uint256 devFee) external onlyOwner {
    require(devFee >= 0 && devFee <= maxDevFee, "teamFee out of range");
    _devFee = devFee;
    _previousDevFee = _devFee;
}

function setSellTaxFeePercent(uint256 sellTaxFee) external onlyOwner {
    require(
        sellTaxFee >= 0 && sellTaxFee <= maxSellTaxFee,
        "taxFee out of range"
    );
    _sellTaxFee = sellTaxFee;
    _previousSellTaxFee = _sellTaxFee;
}
```



Informational

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function excludeFromFee(address account) public onlyOwner {  
    require(!_isExcludedFromFee[account], "Account is already excluded");  
    _isExcludedFromFee[account] = true;  
}
```

Owner can exclude address from reflections rewards.

```
function excludeFromReward(address account) public onlyOwner {  
    require(!_isExcluded[account], "Account is already excluded");  
    if (_rOwned[account] > 0) {  
        _tOwned[account] = tokenFromReflection(_rOwned[account]);  
    }  
    _isExcluded[account] = true;  
    _excluded.push(account);  
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

Crypto Battle

GOOD PRACTICES FOUND

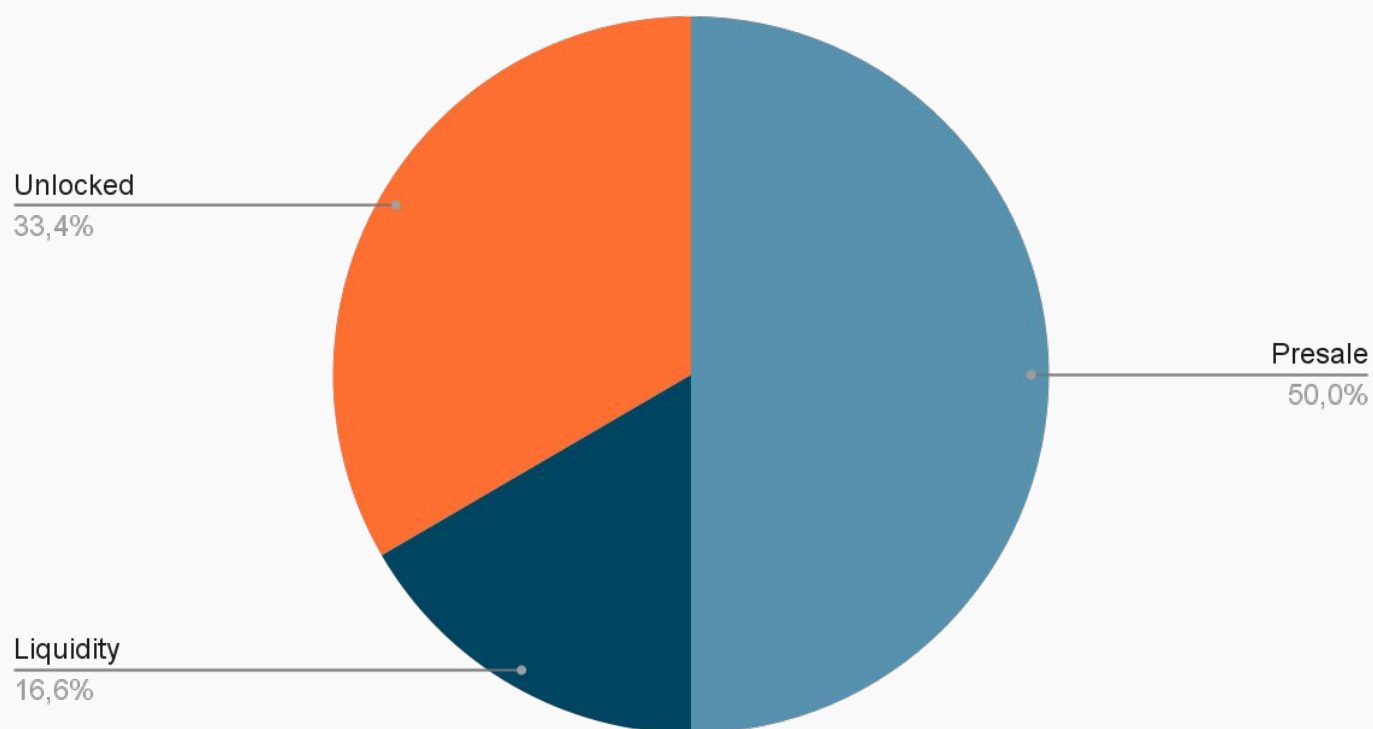
- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot pause the contract
- ✓ The owner cannot set a transaction limit



The information about initial tokens distribution is based on Pinksale's presale page.

- 50% - Presale
- 33.4% - Unlocked
- 16.6 - Liquidity

Tokens distribution



TOKENOMICS



THE TEAM

⚠ The team is
anonymous

KYC INFORMATION

No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





WEBSITE

Website URL

<https://cryptobattlep2e.live/>

Domain Registry

<https://www.namecheap.com/>

Domain Expiration

2024-11-02

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design with appropriate color scheme and graphics.

Content

The information helps new investors understand what the product does.

No grammar mistakes found.

Whitepaper

Yes, explanatory.

Roadmap

No

Mobile-friendly?

Yes



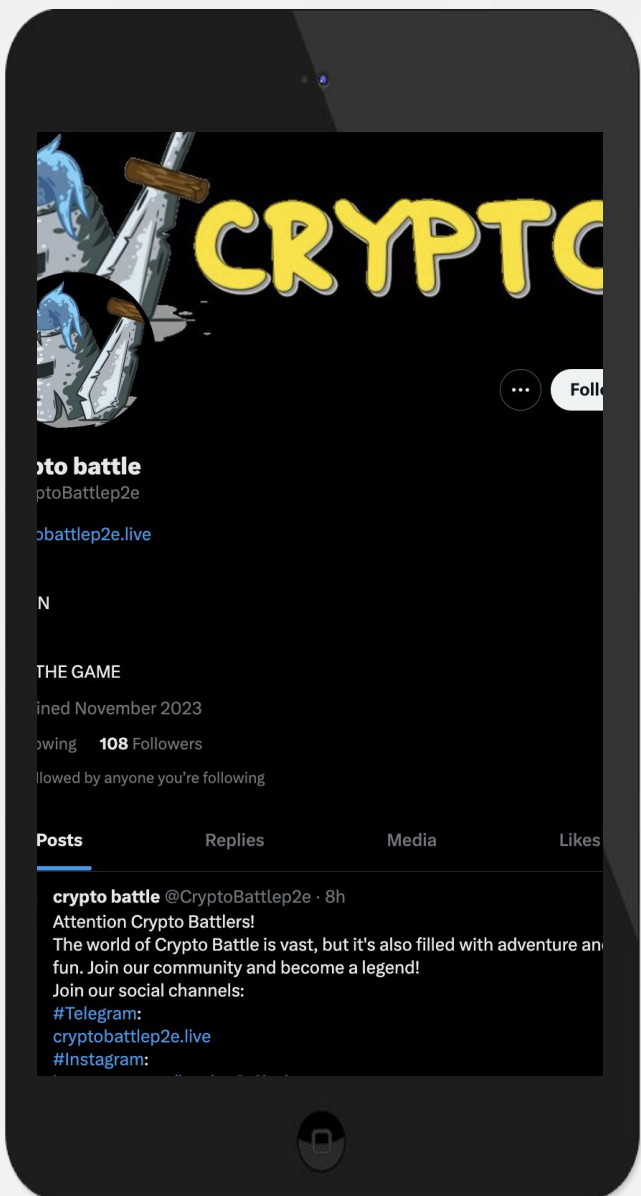
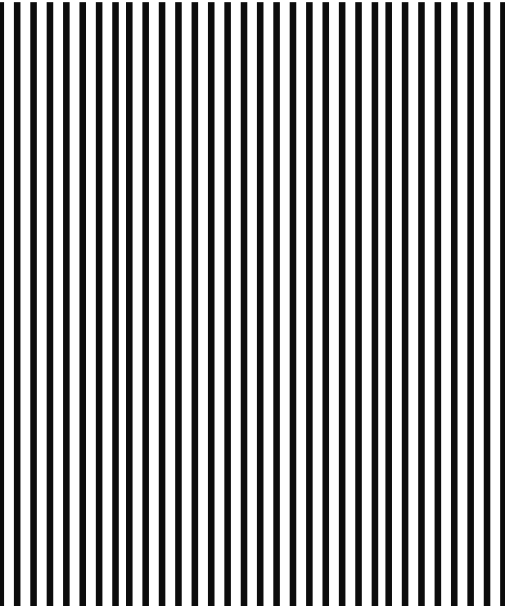
cryptobattlep2e.live



SOCIAL MEDIA & ONLINE PRESENCE

ANALYSIS

Project's social media
pages are active



Twitter

@CryptoBattlep2e

- 113 followers
- Posts frequently
- Active



Discord

- Not available



Telegram

@CRYPTOBATTL

- 837 members
- Active members
- Active mods



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 700 SUCCESSFUL CLIENTS
- ✓ MORE THAN 1000 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

To hire us, reach out to
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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.